

SITE NUMBER: B-L4-01
LOCAL NAME: West Campbell # 1
WRIA: 20.0237B

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Bogachiel **DATE:** 1/26/89 **OBSERVER:** Nettnin

CHANNEL TYPE: Terrace Tributary

TRIBUTARY TO: Bogachiel R. - 20.0162

SITE LOCATION: L.B. @ River mile - 11.2 (WDF)

LEGAL DESCRIPTION: SW1/4 S20 T28N R13W

	UPPER END	LOWER END	RIVER TEMP
<u>WATER TEMP:</u>	42 F	42 F	40 F
<u>FLOW (CFS):</u>	< 0.25	0.5 - 1.0	

SUBSTRATE TYPE: Mostly sand and silt. Some patches of gravel.

SITE SIZE: **Length-** 950 m
 Width- Surface = 4 - 6 ft (excluding pond)
 Channel = 6 - 8 ft (excluding pond)
 Depth- 4 to 12 inches (excluding pond)

WATER SOURCE: Small seep springs

DIRECTIONS TO SITE: Traveling north on Hwy 101 turn left just beyond MP 185 onto the G-2000. Follow the G-2000 approx. 6 miles to the G-2600. Turn left off the G-2600 onto the G-2620. A landing at the end of the G-2620 overlooks the B-L4 area (see site and site direction maps). During low river flows B-L4 is also accessible from the right bank by fording the river just upstream of Lower Campbell's bar (see area B-R5). Turn west off of Hwy 101 about 0.6 mi north of MP 188 onto a gravel road (gate may be locked). Lower Campbell's bar is at the end of this road (see maps).

FISH ACCESS AND CURRENT USE: Fish have unrestricted access up to the lower beaver dam (i.e. the lower 250m of the channel). The first two dams appear passable. Fish were seen in the lower beaver pond. Passage at the third dam, which would allow fish access into the large ponds in the upper reaches of the channel, appears questionable.

FLOODING POTENTIAL: Moderate potential for backwater flooding.

LANDOWNER: Unknown at this time.

COMMENTS & RECOMMENDATIONS: B-L4-01 has a nice egress to the river and should be easy for fish to find. The ponds in B-L4-01 along with the pond in B-L4-02 appear to offer good potential for coho winter rearing. The B-L4-01/B-L4-02 system has been smolt trapped by WDF in the recent past. Trapping data should be available at the Forks office. Beavers are active throughout the area. Recommend setting minnow traps to determine extent of current coho utilization. Installation of controls along the channel would increase ponding and accessibility.

POND NAME: Campbell Pond # 1 **POND DATA SUPPLEMENT**

DATE: 1/26/89

OBSERVER: Nettnin

INLET OUTLET

WATER TEMPERATURE: 42 F 42 F

POND SIZE:

LENGTH - 440 m
WIDTH - 20 - 30 m
EST. MAXIMUM DEPTH - 2-3 ft

WATER SOURCE: Small seep springs.

FISH ACCESS & CURRENT USE: No fish observed in the pond. Beaver dams in the lower channel may be impassible to juvenile coho.

TYPE & AMOUNT OF IN POND COVER: Very heavy sedges. Some L.O.D.

COMMENTS & RECOMMENDATIONS: This pond may be a good candidate for deepening with explosives. Need to check at winter low flow. Set minnow traps to determine if the pond is at all accessible to juvenile coho.

POND NAME: Campbell Pond # 2 **POND DATA SUPPLEMENT**

DATE: 1/26/89

OBSERVER: Nettnin

INLET OUTLET

WATER TEMPERATURE: 42 F 41 F

POND SIZE:

LENGTH - 260 m
WIDTH - 20 m
EST. MAXIMUM DEPTH - 2-3 ft

WATER SOURCE: Small seep springs.

FISH ACCESS & CURRENT USE: No fish observed. Seems very doubtful that juvenile coho would make it into this uppermost pond. The series of beaver dams in the lower channel appear to highly restrict the upstream migration of 0 + coho.

TYPE & AMOUNT OF IN POND COVER: Sedge grasses around the perimeter of the pond and L.O.D. scattered throughout.

COMMENTS & RECOMMENDATIONS: A beaver dam built on top of a 3 ft diameter log helps to form this pond. This dam appears impassible to upmigrating 0+ coho. Removal of this barrier might very well drain the pond. There is only a very small flow (< 0.1 cfs) out of the pond and so very little water to attract fish. May want to leave this pond for the frogs and the ducks.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Bogachiel

Channel No.: B-L4-01

Site Name: Campbell Ponds #1 & #2

WRIA: 20.0237B

DATE: 2/9/89

OBSERVER: Nettnin

Dissolved oxygen measurements were taken in both Campbell Pond # 1 and in Campbell Pond # 2. Samples were taken near the outlet and upper end of each pond (see attached map).

Pond #1 : The D.O. at the upper end of the pond was 5 mg/l and the water temp was 34 F. Water near the outlet also had a D.O. of 5 mg/l but the water temp was a much warmer 44 F. Ice covered most of the pond.

Pond #2 : The D.O. at the upper end of the pond was 3.5 mg/l and the water temp was 34 F. Water near the outlet had a very low D.O. of 0.8 mg/l. Water temp here was 35 F. The pond was frozen over and the water level had dropped some 8 to 12 inches since late January. Outflow from the pond was only about 3 to 5 gal/min.

Minnow traps were set above and below the beaver dam at the lower end of Pond # 1 (see map). Both traps were baited with salmon roe. Since the pond was mostly covered with ice, the trap above the dam was set in fairly shallow water near the lower end of the pond. The trap downstream of the dam was set among the sedges in about 15 to 18 inches of water.

DATE: 2/10/89

OBSERVER: Young, Nettnin

Fished minnow traps that were set on 2/9/89 (see above). Both traps had fished for approximately 24 hours. The trap set below the dam caught 2 coho and 1 trout. The trap set upstream of the dam did not catch any fish. However, this dam appears passable at higher flows and if fish can make it up to the base of the dam they should be getting into the pond. It was thought that another large beaver dam downstream of the trapping sites might be impassable. The fish captured in the minnow trap has shown that fish do get by this lower beaver dam.

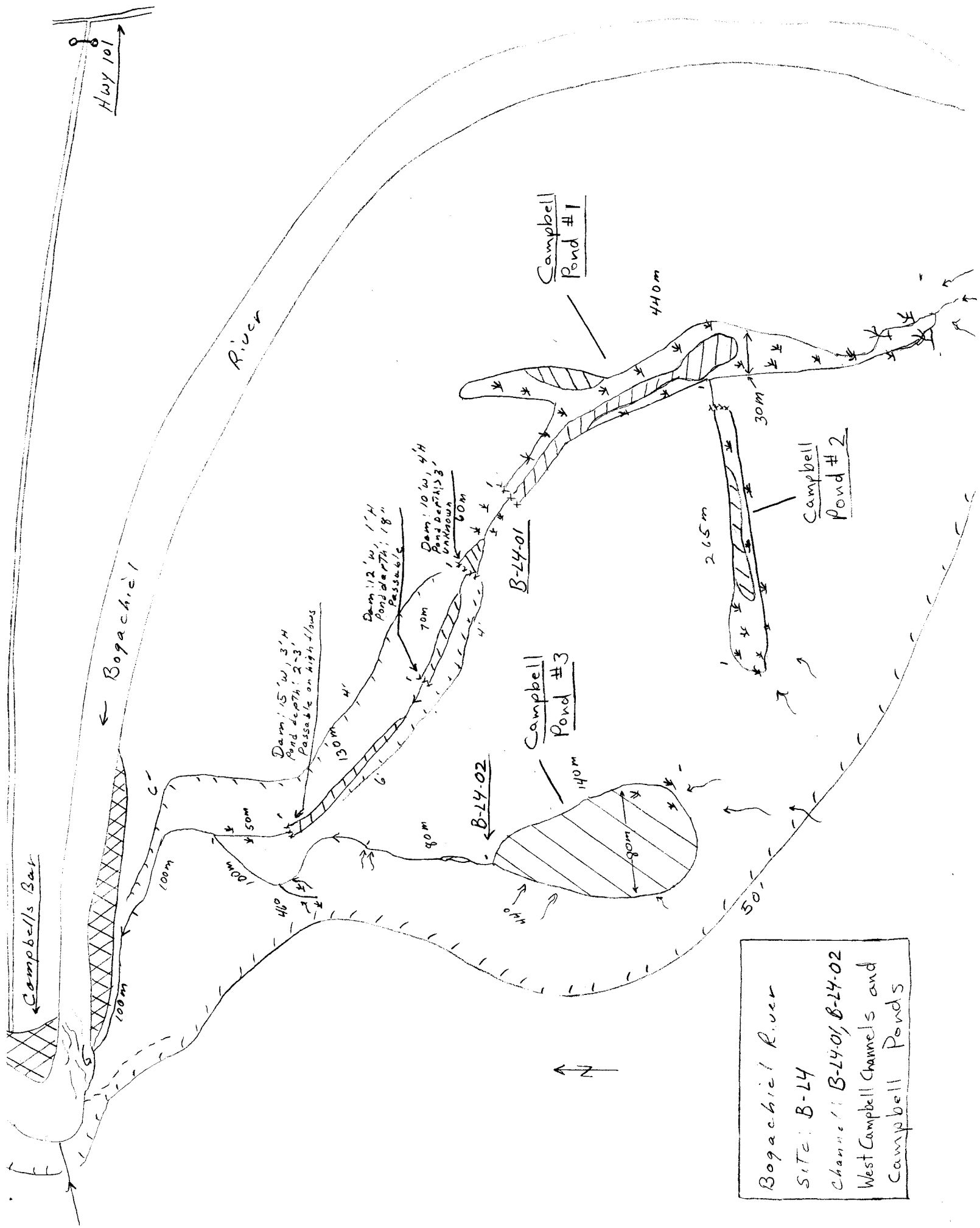
DATE: 5/10/89

OBSERVER: Nettnin

These observations were made during an extended dry period. There has been no significant rainfall since early April. The channel is still mostly watered due in large part to the presence of beaver dams. Flow at the mouth of the channel was between 0.25 and 0.5 cfs. The series of beaver dams above the confluence of B-L4-01 and B-L4-02 still have ponded water behind them. The water surface of these small ponds is well below the top of the dams, however. Though no fish were observed, it seems that any fish still in the ponds are trapped.

The water in Pond #1 is currently confined to a 2 to 3 m wide channel that runs the entire length of the pond. This water appears to be about 2 to 3 ft deep. The water at the lower end of the pond was 52 F and had a D.O. reading of 5 mg/l. The pond is very heavily vegetated with canary grass. Immediately downstream of the pond the channel is dry for 20 to 30 m.

Pond #2 is about 75% dry. Water temperature here was 56 F. Maximum water depth in the pond at this time appeared to be less than 2 ft.



Bogachiel River
 Site: B-24
 Channel: B-24-01, B-24-02
 West Campbell Channels and
 Campbell Ponds

Bogachiel River
Overview map
SITE: B-L4

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